

# Panasonic

900MHz Cordless Phone

Model No. **KX-TC1850B**

Pulse-or-tone dialing capability

## Operating Instructions



**Caller ID Compatible**

**PLEASE READ BEFORE USE AND SAVE.**

Charge the battery for about 4 hours before initial use.

**Preparation**

**Basic Operation**

**Advanced Operation**

**Useful Information**

# Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 44 before use.

Read and understand all instructions.

***Thank you for purchasing your new Panasonic cordless telephone.***

Caller ID, Call Waiting and Voice Mail Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display the caller's name and phone number. Visual Call Waiting, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting. After subscribing to Voice Mail Service, this phone's message waiting lamp will flash when there are messages in the mailbox.

Attach your purchase receipt here.

## For your future reference

Serial No.

Date of purchase

(found on the bottom of the unit)

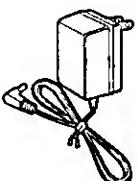
Name and address of dealer

## Accessories (included) For extra orders, call 1-800-332-5368.

AC Adaptor (p. 10)

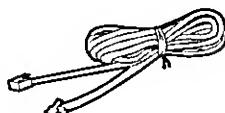
Order No.

KX-TCA1-G



one

Telephone Line Cord (p. 10)



one

Battery (p. 11, 40)

Order No.

P-P501 (KX-A36)



one

Battery Cover (p. 11)

Order No.

PQKK10089Z1



one

Belt Clip (p. 39)

Order No.

PQKE10083Z1

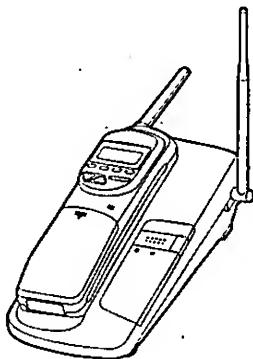


one

# For Best Performance

## Battery Charge

A rechargeable Ni-Cd battery powers the handset. Install the battery and charge it for about **4 hours** before initial use (p. 11).

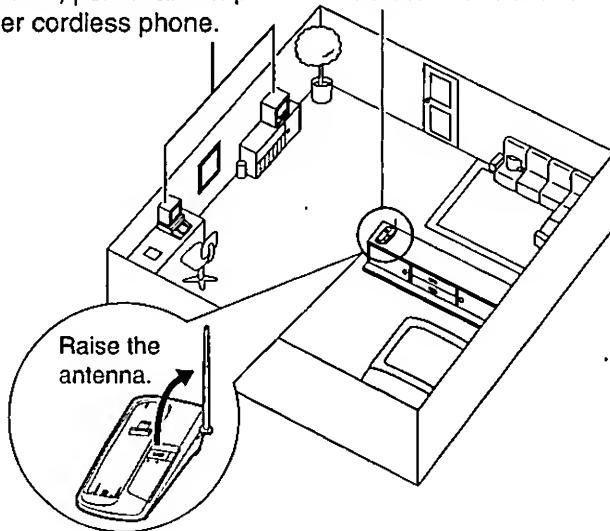


## Base Unit Location/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer or another cordless phone.

In a **HIGH** and **CENTRAL** location with no obstructions such as walls.



- If more than one cordless phone is being used and your handset is near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

# Contents

---

## *Preparation*

Location of Controls .....	6
Handset Display .....	8
Settings .....	10
Connections .....	10
Installing the Battery in the Handset .....	11
Battery Charge .....	11
Selecting the Dialing Mode .....	13
Selecting the Line Mode .....	14
Setting the Auto Talk Feature .....	15
Storing Your Area Code .....	16
Storing a Second Area Code .....	17
Selecting the Ringer Volume .....	18

## *Basic Operation*

Making/Answering Calls .....	19
Making Calls .....	19
Answering Calls .....	20
One-Touch Dialer .....	21
Storing a Phone Number in the DIRECT Button .....	21
Dialing the Stored Number in the DIRECT Button .....	21
Speed Dialer .....	22
Storing Phone Numbers in Memory .....	22
Dialing a Stored Number .....	23

## ***Advanced Operation***

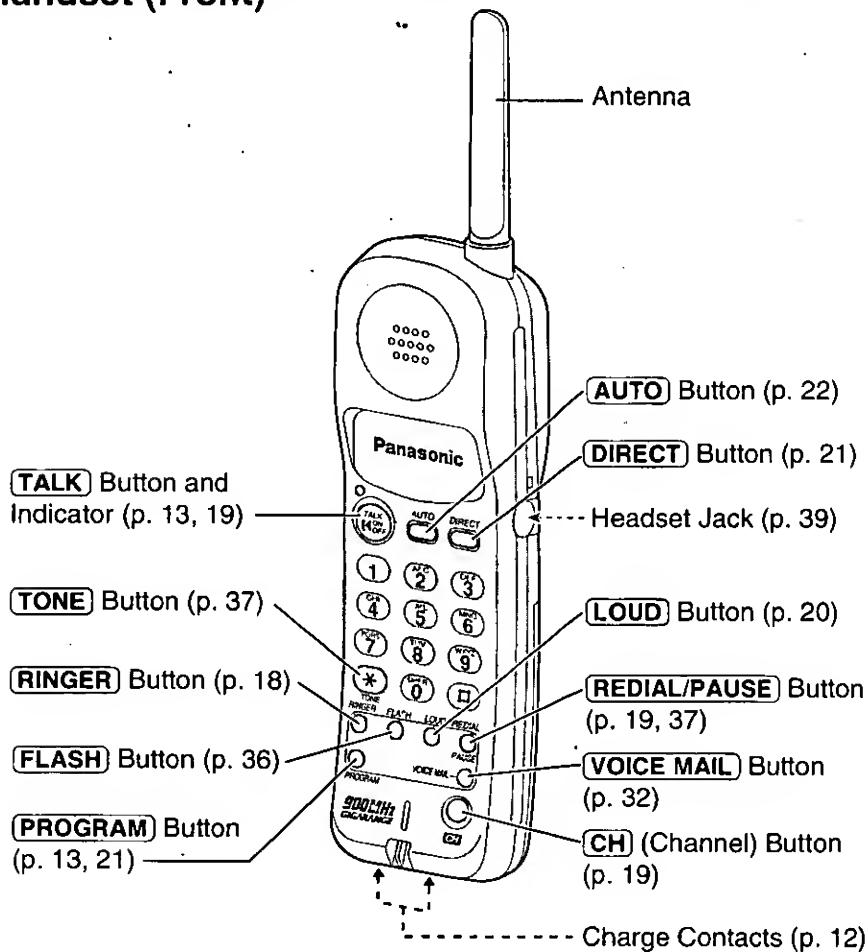
<b>Caller ID Service</b> .....	24
<b>Using the Caller List</b> .....	26
Viewing the Caller List.....	26
Calling Back from the Caller List .....	28
Editing the Caller's Phone Number .....	29
Storing the Caller List Information in Speed Dialer Memory .....	30
Erasing the Caller List Information .....	31
<b>Voice Mail Service</b> .....	32
Storing a Voice Mail Access Number.....	32
Setting the Voice Mail Tone .....	33
Listening to Voice Mail Messages.....	34
<b>Special Features</b> .....	35
Automatic Security Code Setting.....	35
Handset Locator .....	35
FLASH Button.....	36
For Call Waiting Service Users .....	37
Temporary Tone Dialing (For Rotary or Pulse Service Users).....	37
How to Use the PAUSE Button (For Analog PBX Line/Long Distance Service Users) .....	37

## ***Useful Information***

<b>Wall Mounting</b> .....	38
<b>Using the Belt Clip</b> .....	39
<b>Using the Optional Headset</b> .....	39
<b>Battery Replacement</b> .....	40
<b>Adding Another Phone</b> .....	40
<b>Before Requesting Help</b> .....	41
<b>Important Safety Instructions</b> .....	44
<b>FCC and Other Information</b> .....	46

# Location of Controls

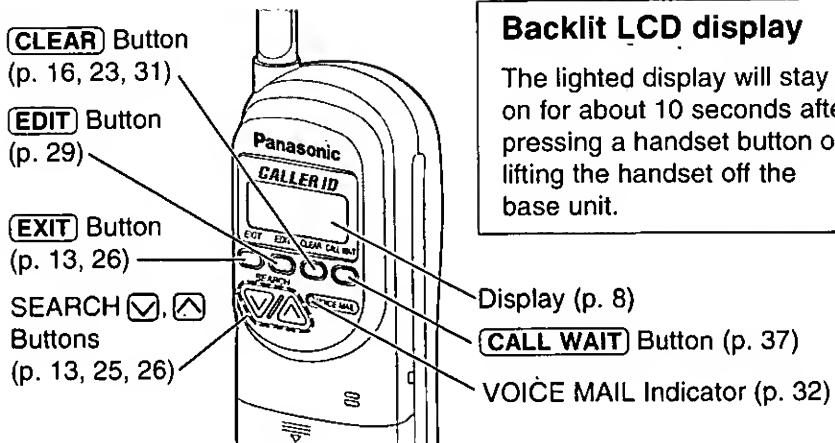
## Handset (Front)



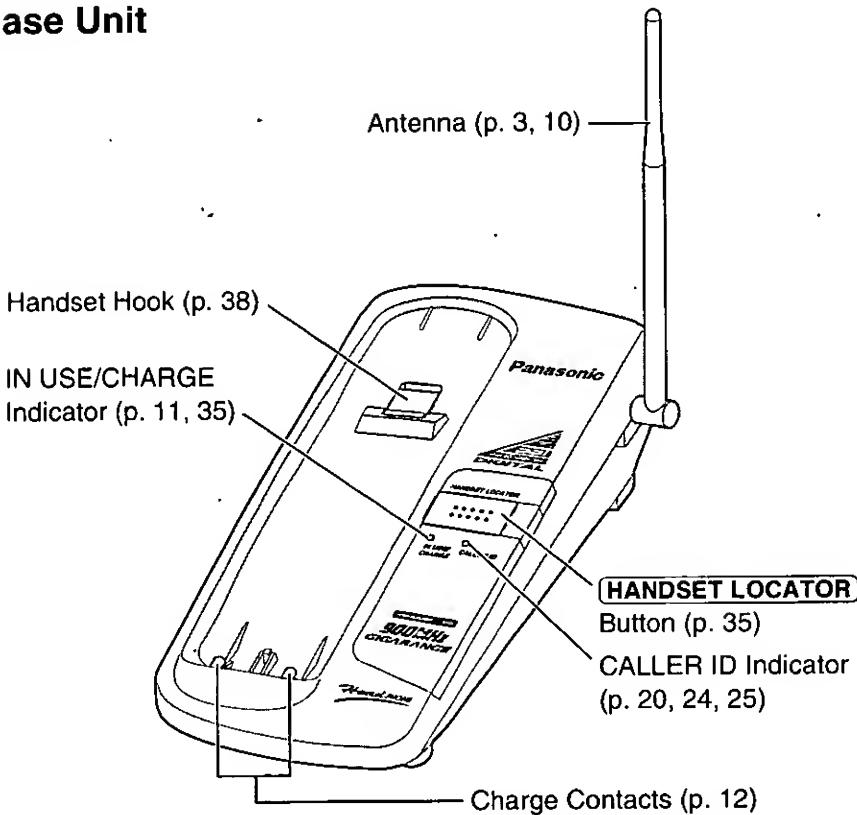
### Lighted handset keypad

The handset dialing buttons will light when you press a button or lift the handset off the base unit, and flash when a call is received. The lights will go out about 10 seconds after pressing a button, lifting the handset or answering a call.

## Handset (Back)



## Base Unit



# Handset Display

The handset shows you instructions and information on the display. These display prompts are shown below.

No items stored

The Caller List is empty.

Recharge



The battery needs to be charged. Place the handset on the base unit to charge the battery. (p. 11).

12 new calls



The display shows the number of new calls and the battery strength (p. 11) while the handset is on the base unit.

12 new calls

v>New

^=Old

This display will be shown when **SEARCH**  or  is pressed while the handset is off the base unit.

To search from the most recent call, press **SEARCH**  (New key). To search from the oldest call, press **SEARCH**  (Old key) (p. 26).

„Ringer off“

When the ringer volume is set to OFF (p. 18), "Ringer off" will flash for about 45 seconds before the handset returns to the stand-by mode (p. 12).

Talk

01-06-35 {■■■}

During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed.

Out of range

The handset has lost communication with the base unit. Move closer to the base unit.

TINA ROBINSON

1-000-222-3333

When a call is received, the display shows the caller's name and number after the first ring.

JACK SMITH  
111-2222  
11:20A JAN12 x3

This is a name from the Caller List.

The display shows:

- the caller's name,
- the caller's number,
- the time and date of the last call  
(ex. Jan. 12, 11:20 AM), and
- the number of times called (ex. 3 times).

Paging

The base unit is paging the handset (p. 35).

NANCY BROWN  
1-000-222-3333  
----Waiting----

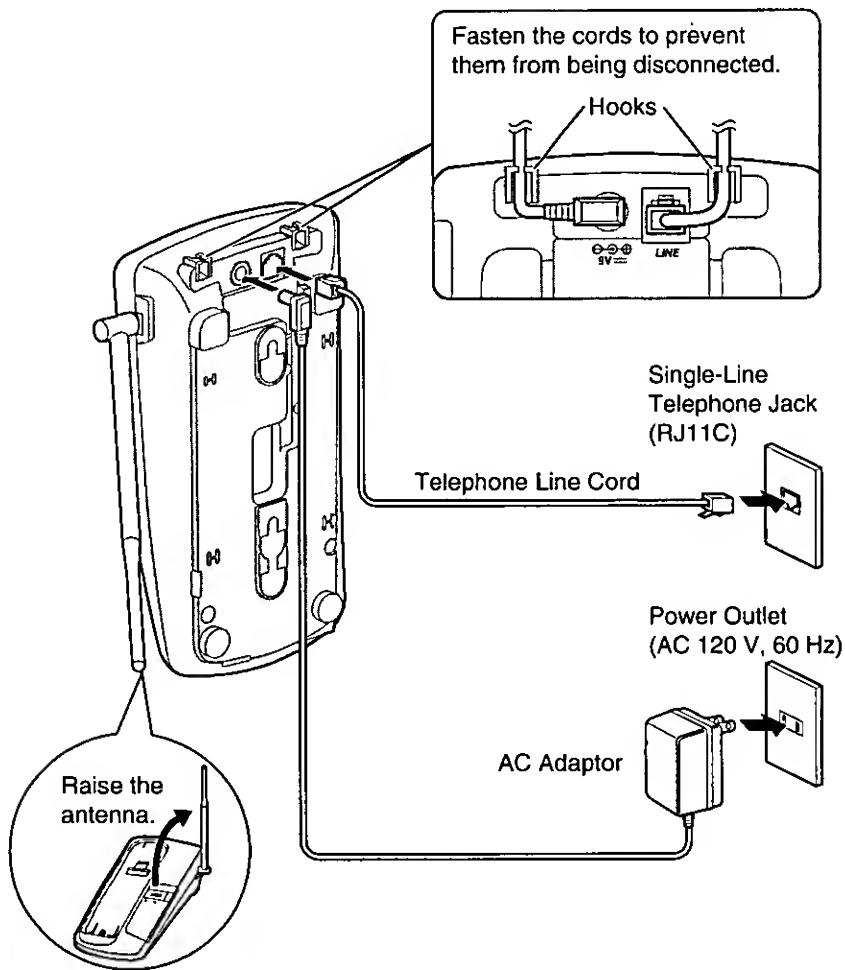
A second call is received during a conversation  
(p. 37).

Please lift up  
and try again

**SEARCH**  or  was pressed while the  
handset was on the base unit. Lift the handset  
and press **SEARCH**  or  again.

# Settings

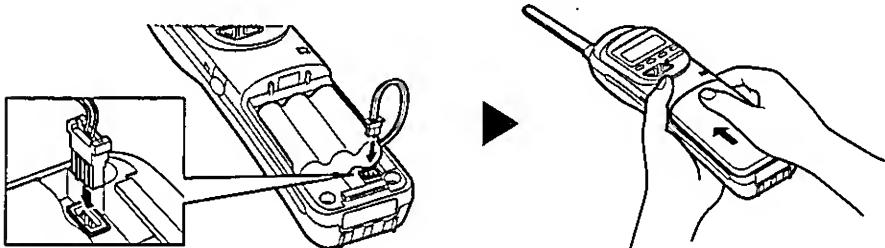
## Connections



- USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1 (Order No. KX-TCA1-G).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 40.
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.

# Installing the Battery in the Handset

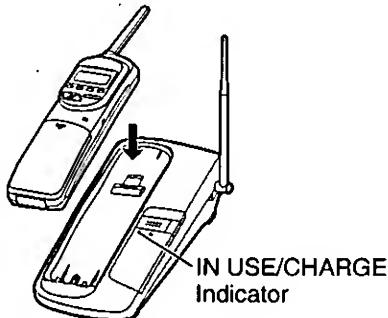
Install the battery and close the handset cover, locking it into place.



## Battery Charge

Place the handset on the base unit and charge for about **4 hours** before initial use.

- The IN USE/CHARGE indicator lights.



## Battery strength

You can check the battery strength on the display while the handset is on the base unit, while it is in use (making/answering a call etc.), or after viewing the Caller List, programming, etc.

The battery strength will remain for 5 seconds after using the handset, then the display will return to the stand-by mode (see next page).

The battery strength is shown as in the chart below.

Display prompt	Battery strength
{ ████ }	Fully charged
{ ███ }	Medium
{ █ }	Low
“{ █ }” (flashing)	Needs to be recharged.

## → Settings

### Recharge

Recharge the battery when:

- “Recharge” is displayed,
- “[   ■ ]” flashes on the display, or
- the handset beeps intermittently while it is in use.

Recharge

“[   ■ ]”

- If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating “Recharge” and/or “[   ■ ]” will continue to flash.

### Battery information

After your Panasonic battery is fully charged (p. 11):

Operation		Approx. battery life
While in use (TALK)	near the base unit*	Up to about 6 hours
	away from the base unit	Up to about 4 hours
While not in use (Stand-by)		Up to about 7 days

\* Within about 10 feet (3 m)

- Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List, and ambient temperature.
- **Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “Recharge” is displayed and/or “[   ■ ]” flashes. This will maximize the battery life.
- The battery cannot be overcharged.

### Stand-by mode (The handset is off the base unit.)

The handset goes into the stand-by mode after you finish using the handset (making/answering a call, viewing the Caller List, etc.). The display is blank, but the handset can receive calls. The battery life is conserved in this mode.



## Selecting the Dialing Mode

If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone". **The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?

▼=Next ▲=Yes

**2** Press **SEARCH**  (Next key) repeatedly until "Set dial mode ?" is displayed.

Set dial mode ?

▼=Next ▲=Yes

**3** Press **SEARCH**  (Yes key).

Dial mode

▼=Tone ▲=Pulse

**4** To select "Pulse", press **SEARCH** .  
OR

Dial mode

Pulse

To select "Tone", press **SEARCH** .

Dial mode

Tone

- A beep sounds.

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

### Selecting the Line Mode

If the line is connected to a low voltage system such as a PBX, set to "B". Otherwise the unit may not ring and the Visual Call Waiting (Call Waiting ID) Service may not be accessible (p. 37). Your phone comes from the factory set to "A".

**The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?  
v=Next ^=Yes

**2** Press **SEARCH**  (Next key) repeatedly until "Set line mode ?" is displayed.

Set line mode ?  
v=Next ^=Yes

**3** Press **SEARCH**  (Yes key).

Line mode  
v=A ^=B

**4** To select "B", press **SEARCH** .  
OR

To select "A", press **SEARCH** .

Line mode  
B

- A beep sounds.

Line mode  
A

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

## Setting the Auto Talk Feature

The Auto Talk feature allows you to answer a call by lifting the handset off the base unit without pressing **TALK**. If you want to view caller's information on the display after lifting the handset, turn this feature OFF by programming. Your phone comes from the factory set to ON.

**The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

**2** Press **SEARCH**  (Next key) repeatedly until "Talk switching?" is displayed.

Save AUTO# ?

=Next  =Yes

**3** Press **SEARCH**  (Yes key).

Talk switching?

=Next  =Yes

**4** To select OFF, press **SEARCH**  .

OR

To select ON, press **SEARCH**  .

- A beep sounds.

Auto talk

=On  =Off

Auto talk

Off

Auto talk

On

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.
- To answer a call when the Auto Talk feature is OFF, lift the handset off the base unit and press **TALK**.

## Storing Your Area Code

We recommend that you first program your area code before using the Caller ID feature (p. 24). Incoming calls from the same area code will then be recorded in the Caller List without the area code. You do not have to remove the area code before calling back or storing. When incoming calls from a different area code are received, "1" will automatically be added before the area code.

**The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?
$\vee$ =Next $\wedge$ =Yes

**2** Press **SEARCH**  (Next key) repeatedly until "Area code ?" is displayed.

Area code ?
$\vee$ =Next $\wedge$ =Yes

**3** Press **SEARCH**  (Yes key).

- The current setting is displayed.  
If no area code has been programmed, "---" will be displayed.

Area code
---
Enter area code

**4** Enter your area code.

- If you enter a wrong number, press **CLEAR** and enter the correct number.

Area code
:123
PROGRAM=Save

**5** Press **PROGRAM** (Save key).

- A beep sounds.

Area code
:123

- To cancel during programming, press **EXIT**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

### To erase the area code

Press **PROGRAM** ➡ **SEARCH**  (Next key) 3 times ➡ ➡ **SEARCH**  (Yes key) ➡ **CLEAR** ➡ **PROGRAM** (Save key).

- If a "2nd area code" has been stored (p. 17), it will also be erased automatically.

## Storing a Second Area Code

You can program a second local area code. This area code does not require a "1" before it when dialing. After storing this area code, the display will show the 10 digits (3-digit area code plus 7-digit phone number) after a call is received from that area code. Calls will be recorded in the Caller List without "1". You cannot store a second area code unless your area code is stored first (p. 16).

**The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?  
▼=Next ▲=Yes

**2** Press **SEARCH**  (Next key) repeatedly until "2nd area code ?" is displayed.

2nd area code ?  
▼=Next ▲=Yes

**3** Press **SEARCH**  (Yes key).

- The current setting is displayed. If no second area code has been programmed, "---" will be displayed.
- If 3 beeps sound, your area code has not been stored. Store the code first (p. 16), then start from step 1.

2nd area code :---  
Enter area code

**4** Enter a second area code.

- If you enter a wrong number, press **CLEAR** and enter the correct number.

2nd area code :124  
PROGRAM=Save

**5** Press **PROGRAM** (Save key).

- A beep sounds.

2nd area code :124

- To cancel during programming, press **EXIT**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

### To erase the second area code

Press **PROGRAM**  $\Rightarrow$  **SEARCH**  (Next key) 4 times  $\Rightarrow$   
 $\Rightarrow$  **SEARCH**  (Yes key)  $\Rightarrow$  **CLEAR**  $\Rightarrow$  **PROGRAM** (Save key).

## → Settings

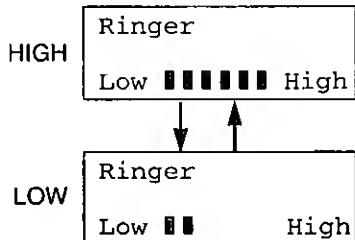
### Selecting the Ringer Volume

You can set the ringer volume to HIGH, LOW or OFF. If set to OFF, the unit will not ring. Your phone comes from the factory set to HIGH. The TALK indicator light must be off.

#### To select HIGH (preset) or LOW

Press **RINGER**.

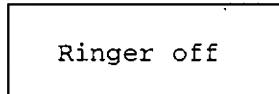
- Each time you press the button, the ringer volume will change and the selected volume will ring.



#### To turn the ringer OFF

Press and hold **RINGER** until 2 beeps sound.

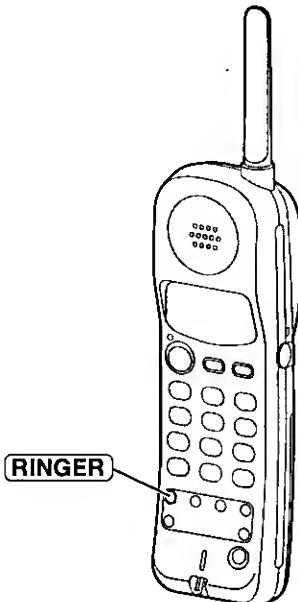
- “Ringer off” will flash for about 45 seconds before the handset returns to the stand-by mode.



#### To turn the ringer ON

Press **RINGER**.

- The ringer will sound at the HIGH level.



# Making/Answering Calls



To have a hands-free conversation, connect an optional headset to the handset (p. 39).

## Making Calls

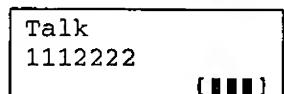
### 1 Press **TALK**.

- The TALK indicator lights.



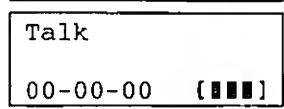
### 2 Dial a telephone number.

- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.



### 3 To hang up, press **TALK** or place the handset on the base unit.

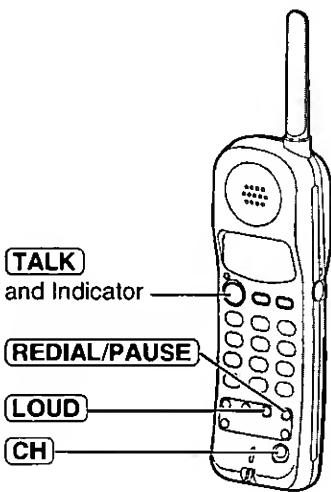
- The indicator light goes out.



- If "Out of range" is displayed and an alarm tone sounds in step 1, move closer to the base unit or place the handset on the base unit, and try again.

### To redial the last number dialed

Press **TALK** ➡ **REDIAL/PAUSE**.



### If noise interferes with the conversation

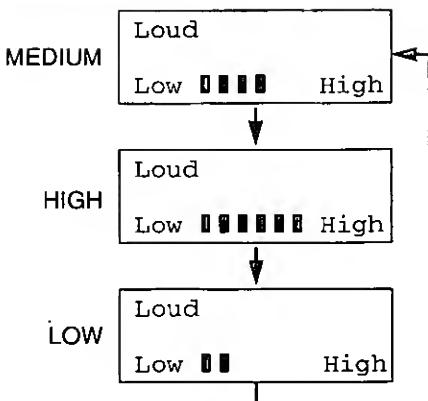
Press **CH** to select a clearer channel or move closer to the base unit.

## → Making/Answering Calls

### To select the receiver volume

Press **LOUD** while talking.

- Each time you press the button, the volume level will change from MEDIUM (preset) to HIGH to LOW.
- The display will return to the length of the call.



### Answering Calls

When a call is received, the unit rings and the CALLER ID indicator on the base unit flashes quickly. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 24). In order to view the CALLER ID information, please wait until the second ring to answer a call.

If the handset is off the base unit, press **TALK**.

- You can also answer a call by pressing any dialing button **0** to **9**, **\*** or **#** (— Any Key Talk).



**OR**

If on the base unit, just lift up.  
(This is not possible when the Auto Talk feature is set to OFF. See page 15.)

When an optional headset is connected (p. 39), be sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

# One-Touch Dialer

## Storing a Phone Number in the DIRECT Button

A phone number stored in the **DIRECT** button can be dialed with a one-touch operation.

**The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?

▼=Next ▲=Yes

**2** Press **SEARCH**  (Next key) once.

Make sure that "Save DIRECT# ?" is displayed.

Save DIRECT# ?

▼=Next ▲=Yes

**3** Press **SEARCH**  (Yes key).

Enter phone no.

**4** Enter a phone number up to 22 digits.

- If you misdial, press **CLEAR**. Digits are erased from the right.

4445555

DIRECT=Save

**5** Press **DIRECT** (Save key).

- A beep sounds.

4445555

Save in DIRECT

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If a pause is required for dialing, press **REDIAL/PAUSE** where needed. Pressing **REDIAL/PAUSE** counts as one digit (p. 37).

### To erase a stored number

Press **PROGRAM**  $\Rightarrow$  **SEARCH**  (Next key)  $\Rightarrow$  **SEARCH**  (Yes key)  $\Rightarrow$   $\Rightarrow$  **CLEAR**  $\Rightarrow$  **DIRECT** (Clear key).

## Dialing the Stored Number in the DIRECT Button

**1** Press **TALK**.

**2** Press **DIRECT**.

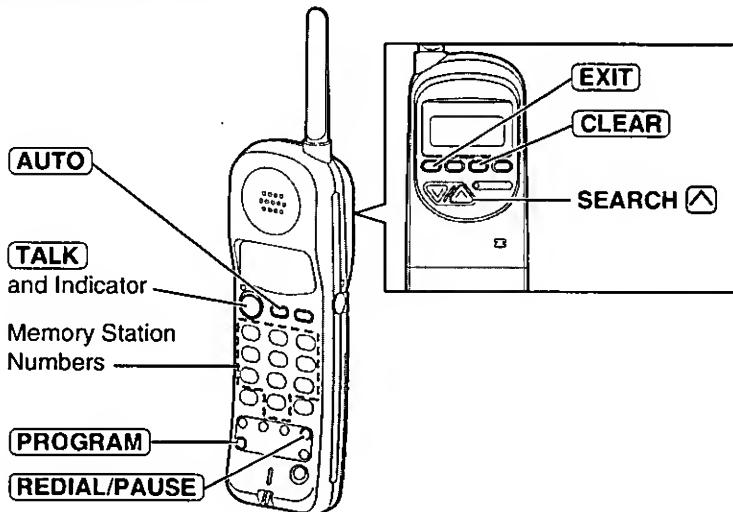
- The stored number is dialed.
- If your line has rotary or pulse service, any access numbers stored after pressing **TONE** will not be dialed.

# Speed Dialer

## Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the handset. The dialing buttons (0) to (9) function as memory stations.

The **TALK** indicator light must be off before programming. Use the handset near the base unit.



1 Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?

▼=Next      ▲=Yes

2 Press **SEARCH** (Yes key).

Enter phone no.

3 Enter a phone number up to 22 digits.

- If you misdial, press **CLEAR**. Digits are erased from the right.

3334444

AUTO=Save

4 Press **AUTO**.

Select 0-9  
to save in AUTO

5 Press a memory station number (0) to (9).

- A beep sounds.
- To store other numbers, repeat steps 1 through 5.

3334444

Save in AUTO 1

- To cancel during programming, press **PROGRAM** or **EXIT**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.
- If a pause is required for dialing, press **REDIAL/PAUSE** where needed. Pressing **REDIAL/PAUSE** counts as one digit (p. 37).

## To erase a stored number

1 Press **PROGRAM**.

- The TALK indicator flashes.

2 Press **SEARCH**  (Yes key).

3 Press **CLEAR**.

4 Press **AUTO**.

5 Press the memory station number  
(**0** to **9**) for the phone number to be erased.

Save AUTO# ?  
v=Next ^=Yes

Enter phone no.

AUTO=Clear

Select 0-9 to  
clear in AUTO

Clear in AUTO 1

## Dialing a Stored Number

1 Press **TALK**.

2 Press **AUTO**.

3 Press the memory station number (**0** to **9**).  
• The stored number is dialed.

- If your line has rotary or pulse service, any access numbers stored after pressing **TONE** will not be dialed.

# Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be displayed after the first ring.

The unit can record information of up to 40 different callers, including the time and date received and the number of times called, in the Caller List. The Caller List information is sorted from the most recent to the oldest call. When the 41st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List into the Speed Dialer memory.

If you subscribe to a Visual Call Waiting (Call Waiting ID) service, when a second call is received while talking, the new caller's name and phone number will be displayed (p. 37).

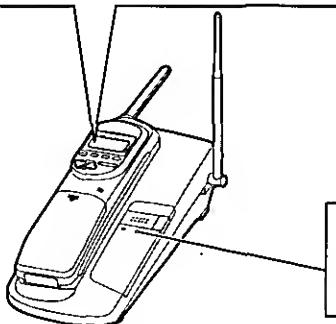
## How caller information is displayed when a call is received

The display shows the caller's name and number after the first ring.

After you answer the call, the display will show the length of the call and the battery strength.

TINA ROBINSON  
1-000-222-3333

Talk  
00-00-00 [■■■■]



The CALLER ID indicator light will flash quickly when a call is being received.

- Caller information cannot be displayed in the following cases:
  - If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
  - If the caller has requested not to display his/her information, the display will show "Private caller".

- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
- In some calling areas, the name display service may not be available. For further information, please contact your telephone company.

## To check the number of new calls

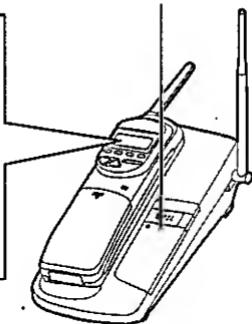
When new calls have been received, the CALLER ID indicator flashes slowly on the base unit.

### While the handset is on the base unit:

If you have received 10 new calls, the display will show the following.

10 new calls  
{000}

CALLER ID Indicator

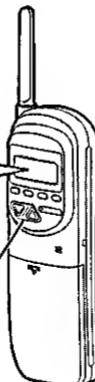


### While the handset is off the base unit:

Press **SEARCH**  or  to turn the display on. If you have received 10 new calls, the display will show the following.

10 new calls  
▼=New      ▲=Old

SEARCH ,



# Using the Caller List

## Viewing the Caller List

To check who has called, follow the steps below.

**The TALK indicator light must be off. Use the handset near the base unit.**

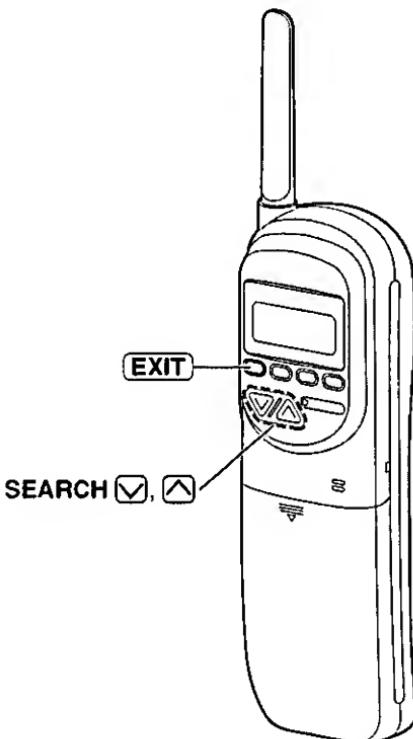
- 1 Lift the handset off the base unit and press **SEARCH**  or  to enter the list.

- The display will show the following:

```
2 new calls
v=New      ^=Old
```

- 2 To search from the most recent call, press **SEARCH**  (New key). To search from the oldest call, press **SEARCH**  (Old key).
- To scroll between callers, press **SEARCH**  or .

- 3 To exit the list, press **EXIT**.
- The handset will return to the stand-by mode.



- Once new calls have been checked, “√” will be added.
- If “No items stored” is displayed in step 1, the Caller List is empty. Press **EXIT** to exit the list.
- If more than one call is received from the same caller, the date and time of the most recent call will be recorded. If the same caller calls again, the call entry with “√” will be deleted.

## Ex. When you search from the most recent call:

Lift the handset off the base unit and press **SEARCH**  or .

2 new calls  
▼=New      ▲=Old

Press **SEARCH** .

JACK SMITH  
111-2222  
3:10P JUN10

Press **SEARCH** .

NANCY BROWN  
222-3333  
1:54P JUN 9 ×2

Press **SEARCH** .

CINDY TURNER  
1-234-456-7890  
10:38A JUN 9 √

Press **SEARCH** .

0 new call  
▼=New      ▲=Old

Press **SEARCH** .

- If there is no name information for the caller, the display will only show the phone number.

**To return to the previous caller, press **SEARCH** .**

**To exit the Caller List, press **EXIT**.**

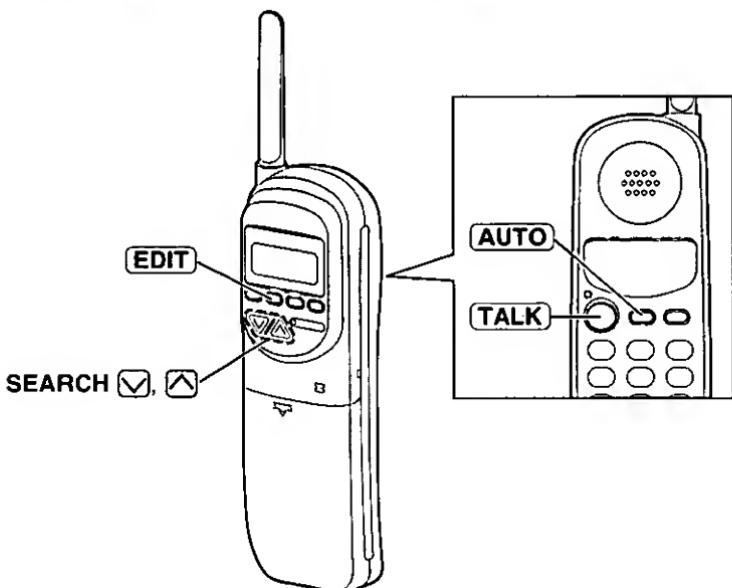
### Display meaning:

✓ : You have checked this caller information, answered the call or called back the caller.

×2-×9 : The number of times the same caller called (up to 9). After checking, “×2” – “×9” will be replaced with “√”.

## → Using the Caller List

### Calling Back from the Caller List



1 Lift the handset off the base unit and press **SEARCH**  or  to enter the list.

3 new calls  
▼=New      ▲=Old

2 Press **SEARCH**  or  repeatedly to find the desired caller.

CINDY TURNER  
1-234-456-7890  
11:20A JAN12 ×3

3 Press **TALK**.

Talk  
12344567890  
[000]

- The displayed phone number is dialed automatically.

Talk  
00-00-00 [000]

- In some cases, you may have to edit the number before dialing (p. 29). (Ex. You may have to add "1" for long distance calls.)  
If you have not stored your area code (p. 16), the edited number will not be saved in the Caller List.
- If a phone number is not displayed in the caller information, you cannot call back that caller.



## Editing the Caller's Phone Number

The unit can edit a phone number into one of 4 patterns.

**The TALK indicator light must be off. Use the handset near the base unit.**

**1** Lift the handset off the base unit and press **SEARCH** or to enter the list.

**2** Press **SEARCH** or repeatedly to find the desired caller.

**3** Press **EDIT** to select a pattern. Each time you press **EDIT**, the number is rearranged into one of 4 different patterns.

(a) 1 – **Phone no.**

(b) 1 – **Area code** – **Phone no.**

(c) **Area code** – **Phone no.**

(d) **Phone no.**

- The order in which patterns (a) – (d) are displayed depends on which pattern the telephone number is displayed in step 2.

**4** After editing the number, you can continue with calling back or storing procedures.

To call back, press **TALK** (p. 28).

To store the number in the Speed Dialer memory, press **AUTO**, then press a memory station number (**0** to **9**) (p. 30).

5 new calls  
v=New ^=Old

FRED PARKER  
321-5555  
11:20A JAN12 ✓

(a) FRED PARKER  
1-321-5555  
11:20A JAN12 ✓

(b) FRED PARKER  
1-234-321-5555  
11:20A JAN12 ✓

(c) FRED PARKER  
234-321-5555  
11:20A JAN12 ✓

(d) FRED PARKER  
321-5555  
11:20A JAN12 ✓

## → Using the Caller List

### Storing the Caller List Information in Speed Dialer Memory

You can store numbers that are in the Caller List into the Speed Dialer memory.

**The TALK indicator light must be off. Use the handset near the base unit.**

**1** Lift the handset off the base unit and press **SEARCH**  or  to enter the list.

10 new calls  
▼=New      ▲=Old

**2** Press **SEARCH**  or  repeatedly to find the caller you want to store in memory.

- If the number requires editing, see page 29.

**3** Press **AUTO**.

Save in AUTO  
Select 0-9

**4** Press a memory station number (**0** to **9**).

1-234-456-7890  
Save in AUTO 0

- A beep sounds.
- The display will return to step 2. You can continue storing other items. To return to the stand-by mode, press **EXIT** or wait for 60 seconds.

- To cancel during programming, press **EXIT**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.
- You cannot store caller information in the Speed Dialer memory if a phone number is not displayed.

# Erasing the Caller List Information

After checking the Caller List, you can erase some or all of the entries. **The TALK indicator light must be off. Use the handset near the base unit.**

## To erase a specific caller from the Caller List

1 Lift the handset off the base unit and press **SEARCH**  or  to enter the list.

10 new calls  
v=New      ^=Old

2 Press **SEARCH**  or  repeatedly to find the caller you want to erase from the Caller List.

TOM REAGAN  
444-5555  
12:20A JAN12

3 Press **CLEAR**.

- A beep sounds and the information is erased.
- After a few seconds, the display will show the previous caller information.
- To return to the stand-by mode, press **EXIT** or wait for 60 seconds.

Clear

## To erase all entries in the Caller List

1 Lift the handset off the base unit and press **SEARCH**  or  to enter the list.

Make sure this display is shown.

0 new call  
v=New      ^=Old

2 Press **CLEAR**.

Press CLEAR for all clear

3 Press **CLEAR** again.

- A beep sounds and all entries are erased.
- The handset will return to the stand-by mode.

All clear

- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

# Voice Mail Service

Voice mail service is an electronic on-line answering system offered by your telephone company. After subscribing, the voice mail system will answer calls automatically when your line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail messages are recorded, the VOICE MAIL indicator will flash. You can access the voice mail system quickly by pressing **VOICE MAIL**.

To use this feature, you must first store your access number.

## Storing a Voice Mail Access Number

The TALK indicator light must be off before programming. Use the handset near the base unit.

1 Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?  
V=Next      ^=Yes

2 Press **SEARCH**  (Next key) repeatedly until "Save mailbox# ?" is displayed.

Save mailbox# ?  
V=Next      ^=Yes

3 Press **SEARCH**  (Yes key).

Enter mailbox#

4 Enter your access number up to 32 digits.

- If you enter a wrong number, press **CLEAR**. Digits are erased from the right.

1234567890  
VOICEMAIL=Save

5 Press **VOICE MAIL** (Save key).

- A beep sounds.

1234567890  
Save mailbox#

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

## To erase a stored number

Press **PROGRAM**  $\Rightarrow$  **SEARCH**  (Next key) twice  $\Rightarrow$   
 $\Rightarrow$  **SEARCH**  (Yes key)  $\Rightarrow$  **CLEAR**  $\Rightarrow$  **VOICE MAIL** (Clear key).

## Setting the Voice Mail Tone

If your voice mail service sends a voice mail tone after a new message has finished recording, set to "On". The VOICE MAIL indicator will flash when a message is recorded in your mailbox. You will hear a series of voice mail tones then a dial tone after pressing **TALK**. (Contact your service provider about your service.)

Set to "Off" if:

- you do not subscribe to a voice mail service,
- your voice mail service does not send a voice mail tone, or
- the unit is connected to a PBX.

Your phone comes from the factory set to "On".

**The TALK indicator light must be off before programming. Use the handset near the base unit.**

**1** Press **PROGRAM**.

- The TALK indicator flashes.

Save AUTO# ?

▼=Next ▲=Yes

**2** Press **SEARCH**  (Next key) repeatedly until "Voicemail tone?" is displayed.

Voicemail tone?

▼=Next ▲=Yes

**3** Press **SEARCH**  (Yes key).

Voicemail tone

▼=On ▲=Off

**4** To select "Off", press **SEARCH**  OR

Voicemail tone

Off

To select "On", press **SEARCH** .

Voicemail tone

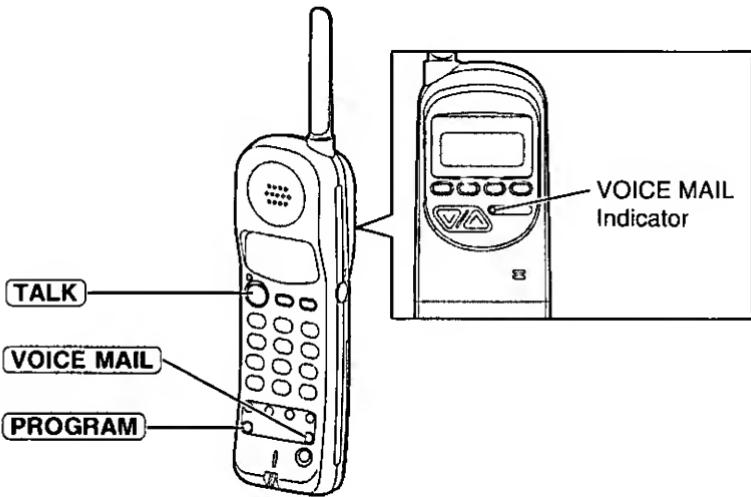
On

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.

## → Voice Mail Service

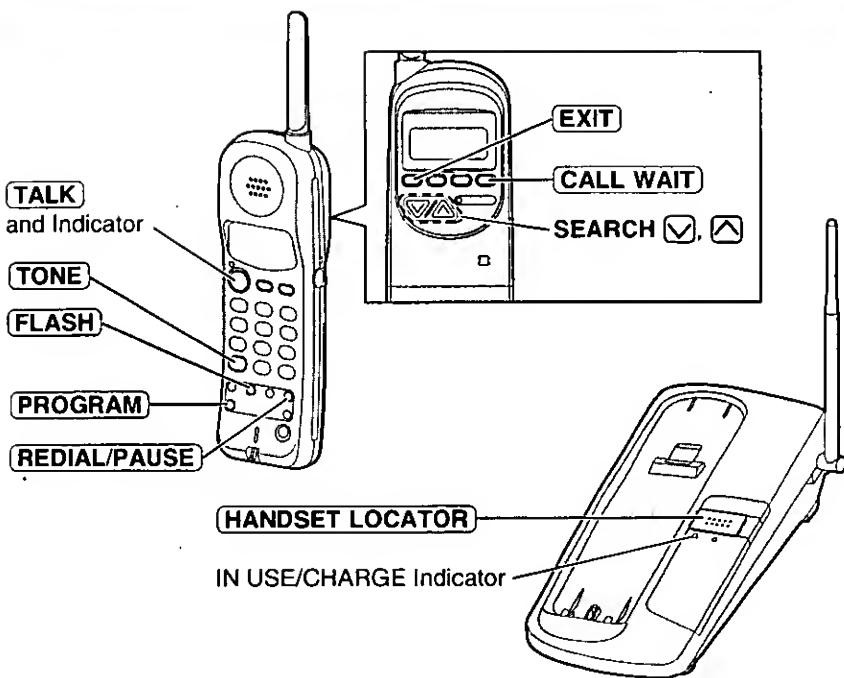
### Listening to Voice Mail Messages

After receiving a voice mail message, the VOICE MAIL indicator will flash. To listen to your voice mail, follow the steps below.



- 1 Press **VOICE MAIL**.
  - The unit is connected to the telephone line and automatically dials the access number.
- 2 Follow the pre-recorded instructions.
- 3 When finished, press **TALK**.
  - If the VOICE MAIL indicator still flashes even after you have listened to your voice mail messages, press and release **PROGRAM**, then press and hold **VOICE MAIL** until the unit beeps. The indicator will turn off.
  - If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, the VOICE MAIL indicator may not flash.
  - If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

# Special Features



## Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than a million security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

## Handset Locator

You can locate the handset or page the handset user with beep tones from the base unit.

1. Press **HANDSET LOCATOR**.
  - The **IN USE/CHARGE** indicator flashes. The handset beeps for 1 minute and "Paging" is displayed.
2. To stop paging, press **HANDSET LOCATOR** again or press **TALK** twice on the handset.

## ⇒ Special Features

### FLASH Button

Pressing **FLASH** allows you to use special features of your host PBX such as transferring an extension call.

- You can press **CALL WAIT** instead of **FLASH**.

#### Selecting the flash time (call waiting time)

The flash time (call waiting time) depends on your telephone exchange or host PBX. You can select the following flash times (call waiting times): "700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)", **using the handset near the base unit**. Your phone comes from the factory set to "700 ms".

**The TALK indicator light must be off before programming.**

1 Press **PROGRAM**.

- The TALK indicator flashes.

SAVE AUTO# ?	
▼=Next	▲=Yes

2 Press **SEARCH**  (Next key) repeatedly until "Set flash time?" is displayed.

Set flash time?	
▼=Next	▲=Yes

3 Press **SEARCH**  (Yes key).

Flash time	
: 700ms	
▼=Next	▲=Save

4 Press **SEARCH**  (Next key) repeatedly until the desired time is displayed.

5 Press **SEARCH**  (Save key).

- A beep sounds.

- To cancel during programming, press **EXIT** or **PROGRAM**. Start again from step 1.
- If 3 beeps sound and the display shows "Out of range", move closer to the base unit and try again. If "Out of range" is still displayed, place the handset on the base unit. Start again from step 1.
- If you are connected via a PBX, a longer flash time may be necessary to use PBX functions (transferring a call etc.). Consult your PBX installer for the correct setting.

## For Call Waiting Service Users

Press **CALL WAIT** if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **CALL WAIT** again.
- You can press **FLASH** instead of **CALL WAIT**.
- If this function does not operate properly, the flash time (call waiting time) may not be set correctly. Consult your telephone company for details. See page 36 for how to adjust the time.

## Visual Call Waiting (Call Waiting ID) Service

Visual Call Waiting (Call Waiting ID) Service allows your handset to display the second caller's information. After you hear a call-waiting tone while talking, the handset will display the caller's name with the phone number and "----Waiting----".

NANCY BROWN
1-000-222-3333
----Waiting----

- The second caller's information will not be displayed if a parallel connected telephone is in use.
- Please contact your telephone company for details and availability in your area.

## Temporary Tone Dialing (For Rotary or Pulse Service Users)

Press **TONE** before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.
- Access numbers entered after pressing **TONE** will not be included when redialing.

## How to Use the PAUSE Button

(For Analog PBX Line/Long Distance Service Users)

We recommend you press **REDIAL/PAUSE** if a pause is required for dialing with a PBX or to access a long distance service.

Ex. Line access number **(9)** (PBX)

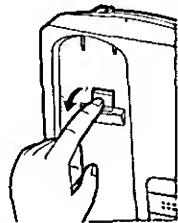
**(9)** **► REDIAL/PAUSE** **►** **Phone number**

- Pressing **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing **REDIAL/PAUSE** more than once increases the length of the pause between numbers.

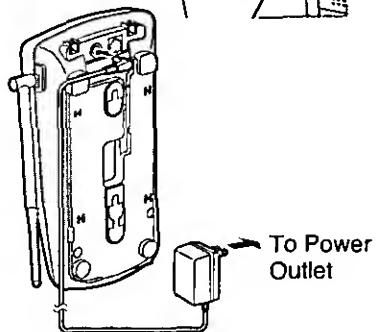
# Wall Mounting

This unit can be mounted on a wall phone plate.

- 1 Pull down the handset hook until it locks, so the tab holds the handset.

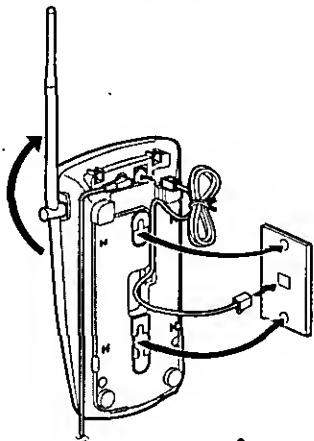


- 2 Connect the AC adaptor.

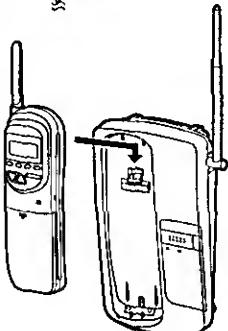


- 3 Connect the telephone line cord. Mount the unit, then slide down.

- Raise the antenna.



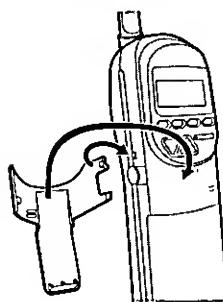
- 4 **To charge the battery:**  
Place the handset on the handset hook as shown.
  - The IN USE/CHARGE indicator lights.



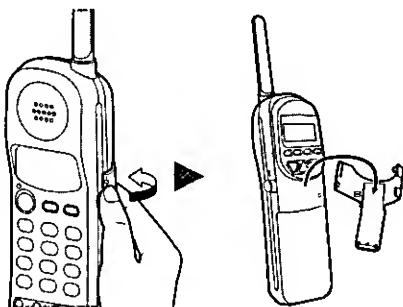
# Using the Belt Clip

You can hang the handset on your belt or pocket using the belt clip.

## To attach the belt clip



## To remove the belt clip

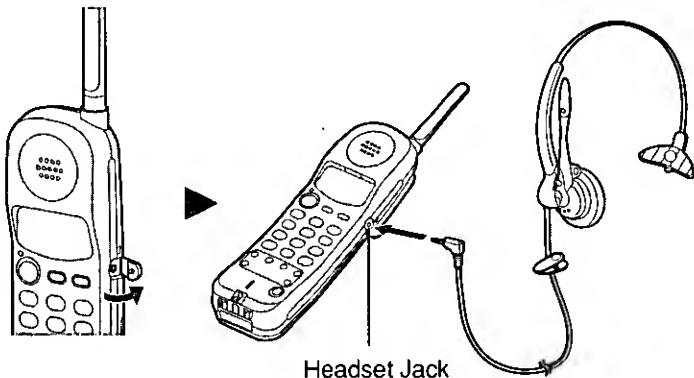


# Using the Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only the Panasonic KX-TCA90 headset. To order, call the accessories telephone number on page 2.

## Connecting the optional headset to the handset

Open the headset jack cover and connect the optional headset to the headset jack as shown.

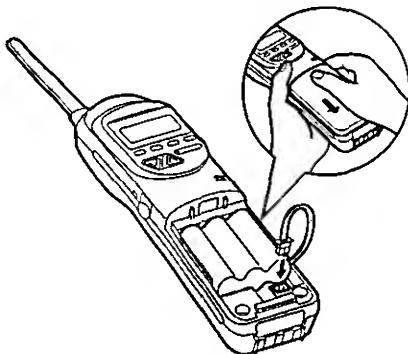


When the optional headset is connected, be sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

# Battery Replacement

If "Recharge" is displayed and/or " ( )" flashes after being fully charged, replace the battery with a new Panasonic P-P501 (KX-A36) battery. To order, call the accessories telephone number on page 2.

- 1 Remove the cover by sliding while pressing the arrow.
- 2 Replace the battery, and close the cover.
- 3 Be sure to charge the new battery for about 4 hours in order to display the battery strength prompt correctly (p. 11).



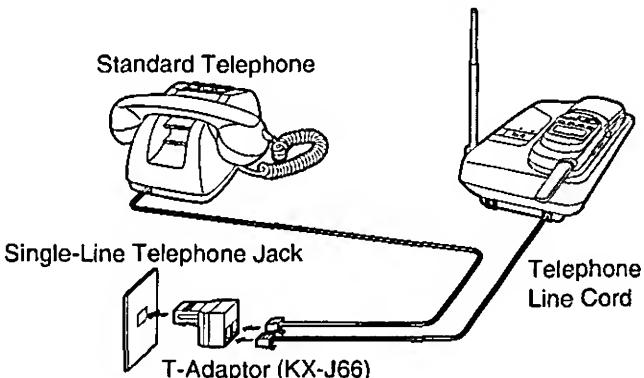
## Attention:

The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



# Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66. To order, call the accessories telephone number on page 2.



# Before Requesting Help



Problem	Remedy
"Out of range" is displayed and an alarm tone sounds.	<ul style="list-style-type: none"><li>• You are too far from the base unit. Move closer and try again.</li><li>• Place the handset on the base unit and try again.</li><li>• Plug in the AC adaptor.</li><li>• Raise the base unit antenna.</li></ul>
The unit does not work.	<ul style="list-style-type: none"><li>• Check the settings (p. 10-18).</li><li>• Charge the battery fully (p. 11).</li><li>• Clean the charge contacts and charge again (p. 11, 12).</li><li>• Install the battery properly (p. 11, 40).</li><li>• Place the handset on the base unit and unplug the AC adaptor to reset. Plug in and try again.</li><li>• Re-install the battery and place the handset on the base unit. Try again.</li></ul>
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"><li>• Locate the handset and the base unit away from other electrical appliances (p. 3).</li><li>• Move closer to the base unit.</li><li>• Raise the base unit antenna.</li><li>• Press <b>CH</b> to select a clearer channel.</li></ul>
The handset does not ring.	<ul style="list-style-type: none"><li>• The ringer volume is set to OFF. Press <b>RINGER</b> while the TALK indicator light is off (p. 18).</li><li>• If the line is connected to a low voltage system such as a PBX, the unit may not ring. Set the line mode to "B" (p. 14).</li></ul>
The handset display is blank.	<ul style="list-style-type: none"><li>• The handset is in the stand-by mode (p. 12). Press <b>SEARCH</b> <input checked="" type="checkbox"/> or <input type="checkbox"/> to turn the display on.</li></ul>
The handset display is still blank after pressing <b>SEARCH</b> <input checked="" type="checkbox"/> or <input type="checkbox"/> .	<ul style="list-style-type: none"><li>• Charge the battery fully (p. 11).</li></ul>

## → Before Requesting Help

Problem	Remedy
You cannot program items, such as the dialing mode.	<ul style="list-style-type: none"><li>• Programming is not possible while the unit is in the talk mode or when viewing caller information.</li><li>• Do not pause for over 60 seconds while programming.</li><li>• Move closer to the base unit.</li><li>• <b>SEARCH</b> <input checked="" type="checkbox"/> or <input type="checkbox"/> may have been pressed when you picked up the handset. Press <b>EXIT</b>, and try again.</li></ul>
You cannot store a phone number in memory.	<ul style="list-style-type: none"><li>• You cannot store a number while the unit is in the talk mode.</li><li>• Do not pause for over 60 seconds while storing.</li></ul>
While programming or searching, the unit starts to ring and stops the program/search.	<ul style="list-style-type: none"><li>• To answer the call, press <b>TALK</b>. Start again from the beginning after hanging up.</li></ul>
Previously programmed information is erased.	<ul style="list-style-type: none"><li>• If a power failure occurs, programmed information may be erased. Reprogram if necessary.</li></ul>
The unit does not display the caller's name and/or phone number.	<ul style="list-style-type: none"><li>• Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li><li>• Other electrical appliances connected to the same outlet may be interfering with the Caller ID information.</li><li>• Telephone line noise may be affecting the Caller ID information.</li></ul>
The display goes to the stand-by mode while viewing the Caller List.	<ul style="list-style-type: none"><li>• Do not pause for over 60 seconds while searching.</li></ul>
When a second call is received during a conversation, the unit does not display the new caller's name and/or phone number.	<ul style="list-style-type: none"><li>• The line mode selection is incorrect. See page 14.</li></ul>

Problem	Remedy
<b>HANDSET LOCATOR</b> does not function.	<ul style="list-style-type: none"> <li>• The handset is too far from the base unit.</li> <li>• The handset is engaged in an outside call or in the search mode. Wait until the IN USE/CHARGE indicator light goes out.</li> </ul>
<b>REDIAL/PAUSE</b> does not function properly.	<ul style="list-style-type: none"> <li>• The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 19). If another number has been dialed first, it will operate as a pause button (p. 37).</li> </ul>
You cannot redial by pressing <b>REDIAL/PAUSE</b> .	<ul style="list-style-type: none"> <li>• If the last number dialed was more than 32 digits long, the number will not be redialed.</li> <li>• Access numbers entered after pressing <b>TONE</b> will not be included when redialing (p. 37).</li> </ul>
"Recharge" is displayed, "[■]" flashes or the unit beeps intermittently.	<ul style="list-style-type: none"> <li>• Charge the battery fully (p. 11).</li> </ul>
You charged the battery fully, but "Recharge" is still displayed and/or "[■]" continues to flash.	<ul style="list-style-type: none"> <li>• Clean the charge contacts and charge again (p. 11, 12).</li> <li>• Install a new battery (p. 40).</li> </ul>
The IN USE/CHARGE indicator light does not go out while charging.	<ul style="list-style-type: none"> <li>• This is normal.</li> </ul>
You cannot have a conversation using the handset.	<ul style="list-style-type: none"> <li>• When the optional headset is connected (p. 39), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.</li> </ul>
You cannot have a conversation using an optional headset.	<ul style="list-style-type: none"> <li>• Make sure that the optional headset is connected properly (p. 39).</li> </ul>
If you cannot solve your problem	<ul style="list-style-type: none"> <li>• Call our customer call center at 1-800-211-PANA(7262).</li> </ul>

# Important Safety Instructions

---

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
  - A. When the power supply cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.
  - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

## SAVE THESE INSTRUCTIONS

---

**CAUTION:**

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

**WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

USA/Canada

# FCC and Other Information

---

If requested by the telephone company, inform them as follows:

FCC Registration No. ....(found on the bottom of the unit)

Ringer Equivalence ..... 0.1B

The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.

If you are on a party line, check with your local telephone company.

## Ringer Equivalence No. (REN):

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.
- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

---

**CAUTION:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

**Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near, or on top of, a TV or VCR. If interference is experienced, move the cordless telephone farther away from the TV or VCR. This will often reduce, or eliminate, interference.

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 905MHz to 926MHz and the power output level can range from 0.001 watts to 0.2 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

## For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-211-PANA(7262) for the location of an authorized servicenter.

## When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

### Symptom

---

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

**Panasonic Consumer Electronics Company,  
Division of Matsushita Electric Corporation of America**  
One Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company,  
Division of Matsushita Electric of Puerto Rico, Inc.**  
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park  
Carolina, Puerto Rico 00985